

03439000 FRENCH BROAD RIVER AT ROSMAN, NC

LOCATION.--Lat 35°08'32", long 82°49'27", Transylvania County, Hydrologic Unit 06010105, on left bank 50 ft upstream from bridge on U.S. Highway 178 at Rosman, 1.0 mi upstream from East Fork, and at mile 216.4.

DRAINAGE AREA.--67.9 mi².

PERIOD OF RECORD.--May 1907 to June 1909, October 1935 to current year. Monthly discharge only for some periods published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 1306: 1908(M). WSP 1910: 1936(M), 1938(M), 1939-40, 1942-43, WDR NC-93-1: 1993(M).

GAGE.--Water-stage recorder. Datum of gage is 2,173.83 ft above NGVD of 1929. Prior to June 30, 1909, nonrecording gage at site 500 ft downstream at different datum. Jan. 1, 1936, to July 6, 1937, nonrecording gage at present site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Minimum discharge for period of record result of freezeup. Minimum daily discharge occurred several days in Sept. and Oct. 1954. Minimum discharge for current water year also occurred Oct. 15.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of 13.9 ft, from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	203	143	157	432	155	270	241	233	230	358	210	902
2	179	138	154	323	150	257	235	229	224	1,460	196	315
3	164	134	152	316	147	239	228	219	276	506	247	271
4	153	132	168	280	181	228	223	211	261	374	219	249
5	148	166	347	263	157	225	261	342	229	336	193	225
6	137	212	238	248	154	419	234	1,090	218	342	182	208
7	132	164	204	234	163	309	467	1,060	829	332	184	200
8	126	153	190	228	149	275	355	690	510	296	195	191
9	122	148	181	219	146	257	367	505	374	280	190	183
10	127	224	180	211	155	241	469	424	319	277	212	179
11	132	520	267	202	150	230	445	389	314	255	188	174
12	121	357	210	196	147	221	380	349	339	237	177	169
13	118	279	300	193	143	215	341	324	309	235	187	165
14	112	235	298	188	158	210	314	308	291	238	172	162
15	222	221	248	182	220	212	293	316	277	237	208	215
16	427	454	226	181	238	284	280	289	262	222	218	171
17	210	384	211	179	261	235	272	298	343	219	205	162
18	174	302	200	e175	218	237	377	346	321	277	184	158
19	159	263	203	e171	199	341	319	311	309	269	185	153
20	150	238	506	169	188	826	294	289	274	219	181	150
21	147	260	301	e165	182	514	309	294	249	217	231	147
22	144	231	264	e161	989	404	291	435	236	270	191	1,090
23	135	211	241	e159	669	356	269	393	226	243	187	690
24	131	201	654	e156	410	325	259	376	218	210	175	327
25	134	192	461	e153	335	303	257	331	211	197	166	265
26	142	184	355	152	314	288	255	308	206	190	158	237
27	129	178	313	149	324	273	240	284	219	192	158	227
28	148	171	284	147	293	262	232	266	223	188	169	230
29	171	166	263	163	---	255	245	256	207	183	163	205
30	169	163	246	178	---	282	250	244	199	280	232	197
31	152	---	239	161	---	251	---	236	---	235	215	---
TOTAL	4,918	6,824	8,261	6,334	6,995	9,244	9,002	11,645	8,703	9,374	5,978	8,217
MEAN	159	227	266	204	250	298	300	376	290	302	193	274
MAX	427	520	654	432	989	826	469	1,090	829	1,460	247	1,090
MIN	112	132	152	147	143	210	223	211	199	183	158	147
CFSM	2.34	3.35	3.92	3.01	3.68	4.39	4.42	5.53	4.27	4.45	2.84	4.03
IN.	2.69	3.74	4.53	3.47	3.83	5.06	4.93	6.38	4.77	5.14	3.28	4.50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2003,[@] BY WATER YEAR (WY)

	175	202	243	281	315	335	322	262	217	175	185	165
MEAN	175	202	243	281	315	335	322	262	217	175	185	165
MAX	734	635	489	672	648	787	582	551	882	624	543	447
(WY)	(1965)	(1993)	(1993)	(1937)	(1939)	(1979)	(1983)	(1909)	(1909)	(1989)	(1994)	(1950)
MIN	42.2	56.7	72.6	72.0	130	135	108	114	79.8	75.8	65.3	43.6
(WY)	(1955)	(1955)	(1940)	(1981)	(1963)	(1988)	(1986)	(1941)	(1988)	(1986)	(1954)	(1954)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1908 - 2003 [@]	
ANNUAL TOTAL	61,438		95,495		237	
ANNUAL MEAN	168		262		136	
HIGHEST ANNUAL MEAN					370	1949
LOWEST ANNUAL MEAN					136	1981
HIGHEST DAILY MEAN	1,600	Sep 27	1,460	Jul 2	5,630	Oct 4, 1964
LOWEST DAILY MEAN	48	Sep 11	112	Oct 14	37*	Sep 25, 1954
ANNUAL SEVEN-DAY MINIMUM	50	Sep 7	123	Oct 8	38	Sep 23, 1954
MAXIMUM PEAK FLOW			5,420	Sep 22	13,500	Oct 4, 1964
MAXIMUM PEAK STAGE			10.11	Sep 22	14.95	Oct 4, 1964
INSTANTANEOUS LOW FLOW			110*	Oct 14	23*	Jan 3, 1940
ANNUAL RUNOFF (CFSM)	2.48		3.85		3.50	
ANNUAL RUNOFF (INCHES)	33.66		52.32		47.52	
10 PERCENT EXCEEDS	266		375		413	
50 PERCENT EXCEEDS	150		228		189	
90 PERCENT EXCEEDS	67		152		87	

e Estimated.
[@] See PERIOD OF RECORD.
 * See REMARKS.

